

CLEAN VERSION

CLAIMS

1. An distribution device in a rice huller, wherein:

said rice huller comprises a hulling section which hulls un-hulled rice as raw material, wind sorting section arranged underneath said hulling section, and a hulled rice distribution device disposed between said hulling section and wind sorting section,

said distribution device comprises:

an distribution gutter which receives hulled rice falling from said hulling section and in which a plurality of hulled rice falling-through holes are formed;

a downflow gutter which is linked to one of the upper end edges of said distribution gutter and guides hulled rice from said hulling section to the substantially central part of the distribution gutter in the lengthwise direction;

a screw which is disposed inside said distribution gutter and conveys hulled rice having flowed into the distribution gutter in the lengthwise direction of the distribution gutter; and

a falling rice control plate which can block and open at least some of said hulled rice falling-through holes formed in said distribution gutter, wherein:

a part of the hulled rice which failed to fall through said hulled rice falling-through holes, out of the hulled rice which has flowed into said distribution gutter, in the process of being conveyed by said screw, is caused to overflow the upper end edge of the distribution gutter on the side opposite the upper end edge linked to said downflow gutter.

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2. The hulled rice distribution device in the rice huller according to claim 1, wherein the upper end edge of said distribution gutter which hulled rice is to overflow is so inclined as to increase in height in the part substantially immediately underneath said hulling section and to become gradually lower with the increase in distance from that part in the lengthwise direction of the distribution gutter.

3. The hulled rice distribution device in the rice huller according to claim 2, wherein a recessed part is formed in the part substantially immediately underneath said hulling section at the upper end edge of said distribution gutter which hulled rice is to overflow, and an overflowing rice control plate is disposed in a position corresponding to this recessed part so as to be shiftable between a state in which said recessed part is blocked and a state in which it is opened, thereby controlling with this overflowing rice control plate the quantity of hulled rice overflowing the distribution gutter through said recessed part.

4. The hulled rice distribution device in the rice huller according to claim 3, wherein said falling rice control plate and overflowing rice control plate are fitted to a first shaft and a second shaft concentric therewith, those first and second shafts are rotatably supported by a machine frame of the rice huller independent of each other and, moreover, the rotation of those first and second shafts is enabled to be manipulated from outside the machine frame.